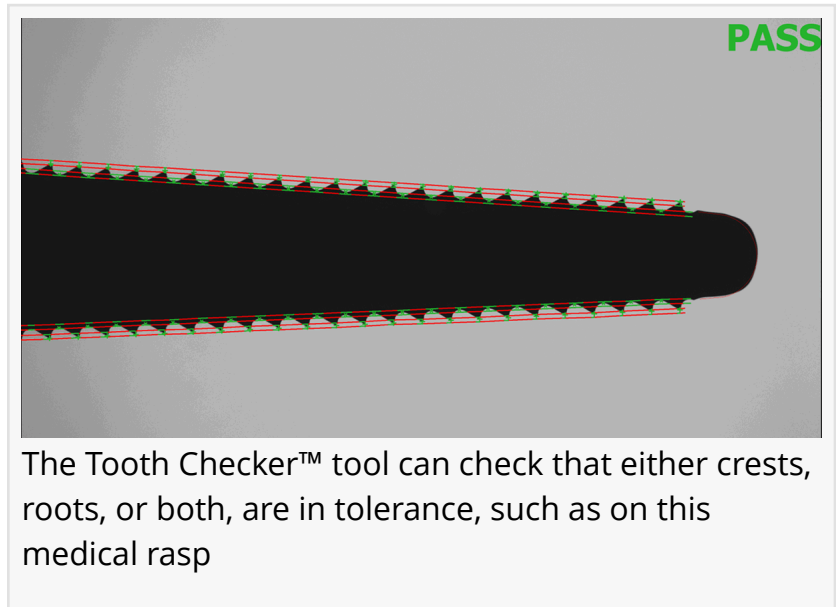


# New US Patent Awarded to VisionGauge® Tooth Checker™ to Check Manufactured Parts with 'Teeth' & Uneven Surfaces

*The VisionGauge® Patented Tooth Checker™ tool is perfectly suited for quickly and accurately checking a wide range of parts across various industries.*

MONTREAL, QUEBEC, CANADA, January 9, 2025 /EINPresswire.com/ -- [VISIONx, Inc.](https://www.visionx.com) has announced that the [VisionGauge® Digital Optical Comparator's](https://www.visionx.com) Tooth Checker™ tool has been awarded a new US Patent (United States Patent No. 12,141,961 B2). VisionGauge®'s [Patented Tooth Checker™](https://www.visionx.com) tool is specially adapted to check parts with teeth. This innovative tool automatically locates, to very high accuracy, the crests and roots of the teeth and determines if they are within their tolerance band. It can also measure all part characteristics and critical dimensions, such as:



“

This innovative tool automatically locates, to very high accuracy, the crests and roots of the teeth and determines if they are within their tolerance band.”

*VISIONx, Inc.*

- Major diameter
- Minor diameter
- Pitch diameter
- Thread pitch
- Helix angle
- Lead and trailing flank angles
- Root radii
- Taper
- Lead

- Circularity
- Etc.

VisionGauge®'s Patented Tooth Checker™ tool is fully automated and completely independent of

part orientation and clocking. Used in conjunction with a rotary stage, the crest and root points found by the tool can be used to calculate part runout. The tool is usable in both manual and fully-automated modes (i.e. within an automated program) and it has no limitations on part size, i.e. it can also be applied to parts that are larger than the optical field-of-view. The tool produces a PASS / FAIL result and also shows where the part passes and where it fails. It also has smart "Adaptive Thresholding" to automatically disregard point imperfections.

VisionGauge®'s Patented Tooth Checker™ tool is perfect for quickly and accurately checking a wide range of parts, including:

- Bone screws
- Medical rasps
- Gears
- Fluted instruments
- Threads & fittings
- Etc.

VisionGauge®'s Patented Tooth Checker™ tool is easy to setup and very powerful. It is fast & accurate and completely eliminates operator subjectivity. It can be used to collect complete inspection data, both pass / fail results and measured values.

VisionGauge®'s Patented Tooth Checker™ tool allows manufacturers to automatically check parts with teeth, uneven surfaces, and similar complex geometries, across a wide range of industries. It allows manufacturers to increase productivity, reduce costs, overcome labor scarcity, and get all the benefits of VisionGauge®, 24/7. It provides manufacturers with a real advantage in today's competitive market.

To learn more about the benefits of the VisionGauge® Digital Optical Comparator, please contact VISIONx, INC., either by visiting the web site at [www.visionxinc.com](http://www.visionxinc.com) or by contacting [info@visionxinc.com](mailto:info@visionxinc.com).



VisionGauge® by VISIONx, Inc.



VisionGauge®'s Tooth Checker™ tool is extremely flexible. It can use it to check the teeth crests & roots on one or multiple profiles.

VISIONx INC. specializes in automated imaging, visual inspection and high accuracy measurement solutions sold worldwide and is the manufacturer of the VisionGauge® Digital Optical Comparator.

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